



Please type a plus sign (+) inside this box → ☐

PTO/SB/08B (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		Complete if Known	
		Application Number	09/319,782
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	April 19, 2000
		First Named Inventor	Jacques Drouin
		Group Art Unit	1636
		Examiner Name	K. Katcheves
		Attorney Docket Number	480848.90018
Sheet	2	of	4

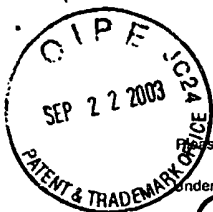
OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
✓	✓	N. Auphan, et al., "Immunosuppression by Glucocorticoids: Inhibition of NF-(kappa)B Activity through Induction of I(kappa)B Synthesis," Science 270:286-290, 1995.	
	✓	E. Caldenhoven, et al., "Negative Cross-talk between RelA and the Glucocorticoid Receptor: A Possible Mechanism for the Antiinflammatory Action of Glucocorticoids," Mol. Endocrinol. 9(4):401-412, 1995.	
	✓	L.E.-C. Cheng, et al., "Functional Redundancy of the Nur77 and Nor-1 Orphan Steroid Receptors in T-cell Apoptosis," EMBO J. 16(8):1865-1875, 1997.	
	✓	J.Drouin, et al., "Glucocorticoid Receptor Binding to a Specific DNA Sequence is Required for Hormone-dependent Repression of Pro-opiomelanocortin Gene Transcription," Mol. Cell. Biol. 9(12):5305-5314, 1989.	
	✓	J.H. Eberwine and J.L. Roberts, "Glucocorticoid Regulation of Pro-opiomelanocortin Gene Transcription in the Rat Pituitary," J. Biol. Chem. 259(4):2166-2170, 1984.	
	✓	C.R. Egan, et al., "A Gut-to-pharynx/tail Switch in Embryonic Expression of the Caenorhabditis elegans ges-1 Gene Centers on Two GATA Sequences," Dev. Biol. 170:-397-419, 1995.	
	✓	J.-P. Gagner and J. Drouin, "Opposite Regulation of Pro-opiomelanocortin Gene Transcription by Glucocorticoids and CRH," Mol. Cell. Endocrinol. 40:25-32, 1985.	
	✓	J.-P. Gagner and J. Drouin, "Tissue-specific Regulation of Pituitary Proopi melanocortin Gene Transcription by Corticotropin-releasing Hormone, 3', 5'-Cyclic Adenosine Monophosphate, and Glucocorticoids," Mol. Endocrinol. 1(10):677-682, 1987.	
	✓	J. Godowski, et al., "Glucocorticoid Receptor Mutants that are Constitutive Activators of Transcriptional Enhancement," Nature 325:365-368, 1987.	
	✓	S. Heck, et al., "A Distinct Modulating Domain in Glucocorticoid Receptor Monomers in the Repression of Activity of the Transcription Factor AP-1," EMBO J. 13(17):4087-4095, 1994.	
K	✓	T. Heinzel, et al., "A Complex Containing N-CoR, mSin3 and Histone Deacetylase Mediates Transcriptional Repression," Nature 387:43-48, 1997.	

Examiner Signature	<i>Konstantina Katcheves</i>	Date Considered	5/12/04
--------------------	------------------------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Please type a plus sign (+) inside this box → ☐

PTO/SB/08B (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 3 of 4

Complete if Known

Application Number	09/319,782
Filing Date	April 19, 2000
First Named Inventor	Jacques Drouin
Group Art Unit	1636
Examiner Name	K. Katcheves
Attorney Docket Number	480848.90018

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
K	✓	A. Helmborg, et al., "Glucocorticoid-induced Apoptosis of Human Leukemic Cells is Caused by the Repressive Function of the Glucocorticoid Receptor," EMBO J. 14(3):452-460, 1995.	
7	✓	A.J. Horlein, et al., "Ligand-independent Repression by the Thyroid Hormone Receptor Mediated by a Nuclear Receptor Co-repressor," Nature 377:397-404, 1995.	
R. Sim		M. Iwata, et al., "Rescue of Thymocytes and T cell Hybridomas from Glucocorticoid-induced Apoptosis by Stimulation via the T cell Receptor/CD3 Complex: A Possible In Vitro Model for Positive Selection of the T cell Repertoire," Eur. J. Pharmacol. 21:643-648, 1991.	
	✓	Y. Kamei, et al., "A CBP Integrator Complex Mediates Transcriptional Activation and AP-1 Inhibition by Nuclear Receptors," Cell 85:403-414, 1996.	
	✓	T.K. Kerppola, et al., "Fox is a Preferential Target of Glucocorticoid Receptor Inhibition of AP-1 Activity In Vitro," Mol Cell. Biol. 13(6):3782-3791, 1993.	
Sim		L.B. King, et al., "To Be or Not to Be: Mutually Antagonistic Death Signals Regulate Thymocyte Apoptosis," Int. Arch. All. Immunol. 105:355-358, 1994.	
	✓	L.B. King, et al., "A Targeted Glucocorticoid Receptor Antisense Transgene Increases Thymocyte Apoptosis and Alters Thymocyte Development," Immunity 3:647-656, 1995.	
	✓	H. Konig, et al., "Interference Between Pathway-specific Transcription Factors: Glucocorticoids Antagonize Phorbol Ester-induced AP-1 Activity without Altering AP-1 Site Occupation In Vivo," EMBO J. 11(6):2241-2246, 1992.	
	✓	L. Nagy, et al., "Nuclear Receptor Repression Mediated by a Complex Containing SMRT, mSin3A, and Histone Deacetylase," Cell 89:373-380, 1997.	
	✓	S.A. Onate, et al., "Sequence and Characterization of a Coactivator for the Steroid Hormone Receptor Superfamily," Science 270:1354-1357, 1995.	
K	✓	G. Poulin, et al., "NeuroD1/(beta)2 Contributes to Cell-specific Transcription of the Proopiomelanocortin Gene," Mol. Cell. Biol. 17(11):6673-6682, 1997.	

Examiner
Signature

Konstantin Katcheves

Date
Considered

5/12/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

5467767_1.PDF



Please type a plus sign (+) inside this box → ☐

PTO/SB/08B (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known	
		Application Number	09/319,782
		Filing Date	April 19, 2000
		First Named Inventor	Jacques Drouin
		Group Art Unit	1636
		Examiner Name	K. Katcheves
		Attorney Docket Number	480848.90018
Sheet	4	of	4

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
W	✓	R.I. Scheinman, et al., "Role of Transcriptional Activation of I(kappa)B(alpha) in Mediation of Immunosuppression by Glucocorticoids," Science 270:283-286, 1995.	
W	✓	R.I. Scheinman, et al., "Characterization of Mechanisms Involved in Transrepression of NF-(kappa)B by Activated Glucocorticoid Receptors," Mol. Cell. Biol. 15(2):943-953, 1995.	
W	✓	R. Sgonc, et al., "Simultaneous Determination of Cell Surface Antigens and Apoptosis," Trends Genet. 10:41-42, 1994.	

Examiner Signature	<i>Kristina Katcheves</i>	Date Considered	5/12/04
--------------------	---------------------------	-----------------	---------

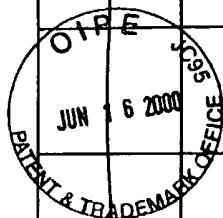
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

K.	✓	Ian Davis, et al., "Endocrine and Neurogenic Regulation of the Orphan Nuclear Receptors Nur77 and Nurrl in the Adrenal Glands," <u>Mole. Cell. Biol.</u> 14:3469-3483, 1994.
	✓	Jacques Drouin, et al., "Homodimer Formation Is Rate-Limiting for High Affinity DNA Binding by Glucocorticoid Receptor," <u>Mole. Endocrin.</u> 6:1299-1309, 1992.
	✓	Jacques Drouin, et al., "Novel glucocorticoid receptor complex with DNA element of the hormone-repressed POMC gene," <u>EMBO J.</u> 12:145-156, 1993.
	✓	Jacques Drouin, "Repression of transcription by nuclear receptors," <u>Mech. Trans. Rep.</u> pp. 118-140.
	✓	Jacques Drouin, et al., "Selective Effect of Androgens on LH and FSH Release in Anterior Pituitary Cells in Culture," <u>Endo.</u> 98:1528-1534, 1976.
	✓	Jacques Drouin, et al., "Structure of the rat pro-opiomelanocortin (POMC) gene," <u>Fed. Eur. Biol. Soc.</u> 193:54-58, 1985.
	✓	Barry Marc Forman, et al., "Unique Response Pathways Are Established by Allosteric Interactions among Nuclear Hormone Receptors," <u>Cell</u> 81:541-550, 1995.
	✓	Vincent Giguère, et al., "Determinants of Target Gene Specificity for RORα1: Monomeric DNA Binding by an Orphan Nuclear Receptor," <u>Mole. Cell. Biol.</u> 15:2517-2526, 1995.
	✓	Thomas G. Hazel, et al., "A gene inducible by serum growth factors encodes a member of the steroid and thyroid hormone receptor superfamily," <u>Proc. Natl. Acad. Sci. USA</u> 85:8444-8448, 1988.
	✓	Yoko Hirata, et al., "The Phosphorylation and DNA Binding of the DNA-binding Domain of the Orphan Nuclear Receptor NGFI-B*," <u>J. Biol. Chem.</u> 268:24808-24812, 1993.
	✓	Jari Honkaniemi, et al., "Induction of multiple immediate early genes in rat hypothalamic paraventricular nucleus after stress," <u>Mole. Brain Res.</u> 25:234-241, 1994.
	✓	Lauren Jacobson, et al., "Regulation of Proopiomelanocortin Gene Transcription," <u>Pit. Gland</u> 2:117-138, 1994.
	✓	Carsten Jonat, et al., "Antitumor Promotion and Antiinflammation: Down-Modulation of AP-1 (Fos/Jun) Activity by Glucocorticoid Hormone," <u>Cell</u> 62:1189-1204, 1990.
	✓	Thomas Lamonerie, et al., "Ptx1, a bicoid-related homeo box transcription factor involved in transcription of the pro-opiomelanocortin gene," <u>Genes & Dev.</u> 10:1284-1295, 1996.
	✓	Simon W. Law, et al., "Identification of a New Brain-Specific Transcription Factor, NURR1," <u>Mole. Endocrin.</u> 6:2129-2135, 1992.
K	✓	Zheng-Gang Liu, et al., "Apoptotic signals delivered through the T-cell receptor of a T-cell hybrid require the immediate-early gene nur77," <u>Nature</u> 367:281-284, 1994.

K	✓	Mar Maira, <u>et al.</u> , "Heterodimerization between Members of the Nur Subfamily of Orphan Nuclear Receptors as a Novel Mechanism for Gene Activation," <u>Mole. Cell. Biol.</u> 19:7549-7557, 1999.
	✓	David J. Mangelsdorf, <u>et al.</u> , "The Nuclear Receptor Superfamily: The Second Decade," <u>Cell</u> 83:835-839, 1995.
	✓	David J. Mangelsdorf, <u>et al.</u> , "The RXR Heterodimers and Orphan Receptors," <u>Cell</u> 83:841-850, 1995.
	✓	Jeffrey Milbrandt, "Nerve Growth Factor Induces a Gene Homologous to the Glucocorticoid Receptor Gene," <u>Neuron</u> 1:183-188, 1988.
	✓	Evelyn P. Murphy, <u>et al.</u> , "Neuroendocrine Regulation of the Hypothalamic Pituitary Adrenal Axis by the nurrl/nur77 Subfamily of Nuclear Receptors," <u>Mole. Endocrin.</u> 16:39-47, 1997.
	✓	Akira Nakai, <u>et al.</u> , "A Human Early Response Gene Homologous to Murine nur77 and Rat NGFI-B, and Related to the Nuclear Receptor Superfamily," <u>Mole. Endocrin.</u> 4:1438-1443, 1990.
	✓	Edward Oates, <u>et al.</u> , "5' Sequence of Porcine and Rat Pro-opiomelanocortin mRNA," <u>J. Biol. Chem.</u> pp. 7421-7425, 1984.
	✓	Naganari Ohkura, <u>et al.</u> , "Molecular Cloning of a Novel Thyroid/Steroid Receptor Superfamily Gene From Cultured Rat Neuronal Cells," <u>Biochem. Biophys. Res. Comm.</u> 205:1959-1965, 1994.
	✓	David Parkes, <u>et al.</u> , "Corticotropin-Releasing Factor Activates c-fos, NGFI-B, and Corticotropin-Releasing Factor Gene Expression within the Paraventricular Nucleus of the Rat Hypothalamus," <u>Mole. Endocrin.</u> 7:1357-1367, 1993.
		Ragnhild E. Paulsen, <u>et al.</u> , "Three Related Brain Nuclear Receptors, NGFI-B, Nurrl, and NOR-1, as Transcriptional Activators," <u>J. Mole. Neur.</u> 6:249-255, 1995.
		Thomas Perlmann, <u>et al.</u> , "A novel pathway for vitamin A signaling mediated by RXR heterodimerization with NGFI-B and NURR1," <u>Genes & Dev.</u> 9:769-782, 1995.
		Alexandre Philips, <u>et al.</u> , "Antagonism between Nur77 and Glucocorticoid Receptor for Control of Transcription," <u>Mole. Cell. Biol.</u> 17:5952-5959, 1997.
		Alexandre Philips, <u>et al.</u> , "Novel Dimeric Nur77 Signaling Mechanism in Endocrine and Lymphoid Cells," <u>Mole. Cell. Biol.</u> 17:5946-5951, 1997.
		Anna Tate Riegel, <u>et al.</u> , "Proopiomelanocortin Gene Promoter Elements Required for Constitutive and Glucocorticoid-Repressed Transcription," <u>Mole. Endocrin.</u> 5:1973-1982, 1991.
		Rolf-Peter Ryseck, <u>et al.</u> , "Structure, mapping and expression of a growth factor inducible gene encoding a putative nuclear hormonal binding receptor," <u>EMBO J.</u> 8:3327-3335, 1989.
K		Magdalena Schröder, <u>et al.</u> , "Thyroid Hormone Receptor Functions as Monomeric Ligand-induced Transcription Factor on Octameric Half-sites," <u>J. Biol. Chem.</u> 269:6444-6449, 1994.



K		Rolando Schüle, <u>et al.</u> , "Functional Antagonism between Onco Protein c-Jun and the Glucocorticoid Receptor," <u>Cell</u> 62:1217-1226, 1990.
		Marc Therrien, <u>et al.</u> , "Pituitary Pro-Opiomelanocortin Gene Expression Requires Synergistic Interactions of Several Regulatory Elements," <u>Mole. Cell. Biol.</u> 11:3492-3503, 1991.
		Marc Therrien, <u>et al.</u> , "Cell-Specific Helix-Loop-Helix Factor Required for Pituitary Expression of the Pro-Opiomelanocortin Gene," <u>Mole. Cell. Biol.</u> 13:2342-2353, 1993.
		Thomas E. Wilson, <u>et al.</u> , "The Orphan Receptors NGFI-B and Steroidogenic Factor 1 Establish Monomer Binding as a Third Paradigm of Nuclear Receptor-DNA Interaction," <u>Mole. Cell. Biol.</u> 13:5794-5804, 1993.
		Thomas E. Wilson, <u>et al.</u> , "Identification of the DNA Binding Site for NGFI-B by Genetic Selection in Yeast," <u>Science</u> 252: 1296-1300, 1991.
		Thomas E. Wilson, <u>et al.</u> , "Participation of Non-Zinc Finger Residues in DNA Binding by Two Nuclear Orphan Receptors," <u>Science</u> 256:107-110, 1992.
		Alan P. Wolfe, "Sinful Repression," <u>Nature</u> 387:16-17, 1997.
		John D. Woronicz, <u>et al.</u> , "Regulation of the Nur77 Orphan Steroid Receptor in Activation-Induced Apoptosis," <u>Mole. Cell. Biol.</u> 15:6364-6376, 1995.
		John D. Woronicz, <u>et al.</u> , "Requirement for the orphan steroid receptor Nur77 in apoptosis of T-cell hybridomas," <u>Nature</u> 367:277-281, 1994.
		Hsin-Fang Yang-Yen, <u>et al.</u> , "Transcriptional Interference between c-Jun and the Glucocorticoid Receptor: Mutual Inhibition of DNA Binding Due to Direct Protein-Protein Interaction," <u>Cell</u> 62:1205-1215, 1990.
K		Karina Yazdanbakhsh, <u>et al.</u> , "Cyclosporin A blocks apoptosis by inhibiting the DNA binding activity of the transcription factor Nur77," <u>Proc. Natl. Acad. Sci. USA</u> 92:437-441, 1995.
EXAMINER		DATE CONSIDERED
K. Kristina Katchers		5/12/04
<p>* EXAMINER: Initial if a citation considered, whether or not citation is in conformance with MPEP 809; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>		